PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 27967P WO	FOR FURTHER ACTIO		fication of Transmittal of Internationa Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (a	ay/month/year)	Priority date (day/month/year)		
PCT/EP2003/007113	03 July 2003 (03	.07.2003)	19 July 2002 (19.07.2002)		
International Patent Classification (IPC) or C08G 77/38	national classification and IP	С			
Applicant DF	EGUSSA INITIATORS	GMBH & CC). KG		
This international preliminary examinated to the applicant		ared by this Inter	national Preliminary Examining Authority		
2. This REPORT consists of a total of	f 5 sheets, incl	uding this cover	sheet		
amended and are the basis		ntaining rectific	ion, claims and/or drawings which have been ations made before this Authority (see Rule		
These annexes consist of a	total of 2 shee	ts.			
3. This report contains indications re	lating to the following items:				
I Basis of the report	Basis of the report				
II Priority	у				
III Non-establishmen	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
IV Lack of unity of in	Lack of unity of invention				
V Reasoned stateme citations and expla	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observation	ns on the international applic	ation			
Date of submission of the demand		te of completion	of this report		
27 November 2003 (27	.11.2003)	15 D	ecember 2004 (15:12.2004)		
Name and mailing address of the IPEA/EP		Authorized officer			
Faccimile No		Telephone No.			

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/007113

I.	I. Basis of the report									
1.	With	regard to	o the elements of the international application:*							
		the inte	e international application as originally filed							
	X	the des	cription:							
		pages	1-12	, as originally filed						
		pages		, filed with the demand						
		pages	, filed with the letter of							
	\boxtimes	the clai	ims:							
		pages		, as originally filed						
		pages		er with any statement under Article 19						
		pages		, filed with the demand						
		pages	1, 7-10 , filed with the letter of	06 December 2004 (06.12.2004)						
		the dra	wings:							
		pages	··	, as originally filed						
		pages		, filed with the demand						
		pages	, filed with the letter of							
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	ш,		ence listing part of the description:							
		pages								
		pages pages	, filed with the letter of	, nied with the demand						
2.			to the language, all the elements marked above were available or furnished to to nal application was filed, unless otherwise indicated under this item.	his Authority in the language in which						
			ats were available or furnished to this Authority in the following language	which is:						
		the lan	guage of a translation furnished for the purposes of international search (under F	Rule 23.1(b)).						
		the lan	guage of publication of the international application (under Rule 48.3(b)).							
the language of the translation furnished for the purposes of international preliminary examination (under Rule 5 or 55.3).										
3.	ational application, the international									
	\Box	ninary examination was carried out on the basis of the sequence listing: contained in the international application in written form.								
	\sqcap		ogether with the international application in computer readable form.							
			ned subsequently to this Authority in written form.							
		furnis	ned subsequently to this Authority in computer readable form.							
The statement that the subsequently furnished written sequence listing does not go beyond the disclosu international application as filed has been furnished.										
		The st	atement that the information recorded in computer readable form is identically invisibled.	al to the written sequence listing has						
	_	DCCII I	minore.							
4.		The ar	nendments have resulted in the cancellation of:							
			the description, pages							
ŀ			the claims, Nos.							
ı			the drawings, sheets/fig	·						
5.		This re	port has been established as if (some of) the amendments had not been made, the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go						
*	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).									
**		-	ent sheet containing such amendments must be referred to under item 1 and ann	exed to this report.						

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7. Reasoned statement under Article 3 citations and explanations supporting	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Statement						
Novelty (N)	Claims	1-10	YES			
	Claims		NO			
Inventive step (IS)	Claims	1-10	YES			
	Claims		NO			
Industrial applicability (IA)	Claims	1-10	YES			
	Claims		NO			

2. Citations and explanations

Having studied the submitted set of amended claims together with the applicant's comments, the Examining Section is of the opinion that the subject matter of the current claims 1 to 10 can be considered novel and inventive for the following reasons:

The feature whereby the mixture of concentrated hydrogen peroxide and concentrated mineral acid is presented and the polyol to be peroxidized is introduced into this mixture has been added to claim 1. The newly introduced feature is important for preventing the formation of undesired byproducts.

Citation D1 (US-A-2 963 501) discloses the synthesis of organosiloxanes containing peroxy substituents which are connected to the silicon by way of a silicon-carbon bond. Each of the peroxy groups has the configuration (column 2, lines 19 to 29):

 $SiR(Me)_mC-$,

in which C is a tertiary carbon atom.

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The siloxane peroxides can be produced by reacting a siloxane alcohol with sulphuric acid to form a sulphate, and reacting the latter with concentrated hydrogen peroxide (examples 1 and 7), according to the equation (column 2, lines 33 to 58):

$$H_2SO_4$$
 DOH + H_2O_2 ----> DOOH + DOOD

in which D can be a polysiloxane (column 4, line 10). DOH can be produced by reacting copolymeric siloxane, in which at least one silicon per molecule has a hydrogen atom bound thereto, with unsaturated alcohol (column 4, lines 40 to 43; examples 1 and 7).

In such a procedure, the elimination of water from the peroxide present could not be prevented, such that product mixtures which would be totally unsuitable as copolymerization initiators would be produced.

Thus D1 contains nothing to suggest to a person skilled in the art how the disruptive formation of homopolymers during copolymerization might be prevented. Therefore claims 1 to 10 also meet the PCT novelty and inventive step requirements (PCT Article 33(1) to (3)).